FISHER-ROSEMOUNT

RS3™

Software Release Notes

Performance Series™ Release 1

May 1996
U.S. Manual PN: 1984-2818-0110

©Fisher-Rosemount Systems, Inc., 1987–1996.

All rights reserved.

Printed in the U.S.A.

Components of the RS3 distributed process control system may be protected by U.S. patent Nos. 4,243,931; 4,370,257; 4,581,734. Other Patents Pending.

RS3 is a mark of one or more of the Fisher-Rosemount group of companies. All other marks are property of their respective owners. The contents of this publication are presented for informational purposes only, and while every effort has been made to ensure their accuracy, they are not to be construed as warranties or guarantees, express or implied, regarding the products or services described herein or their use or applicability. We reserve the right to modify or improve the designs or specifications of such products without notice.

Fisher-Rosemount Systems, Inc.
12000 Portland Avenue South
Burnsville, Minnesota 55337 U.S.A.

Telephone: (612) 895-2000
TWX/Telex: 192177
FAX: (612) 895-2044

Comment Form
RS3™ Manuals

Software Release Notes 1984-2818-0110

Please give us your feedback to help improve this manual.

	Never	Rarely	Sometimes	Usually	Always
1. Do you actually use this manual when you are:					
• configuring	_____	_____	_____	_____	_____
• making changes or enhancements	_____	_____	_____	_____	_____
• operating the system	_____	_____	_____	_____	_____
• troubleshooting	_____	_____	_____	_____	_____
• other _____	_____	_____	_____	_____	_____
2. Does this manual answer your questions?	_____	_____	_____	_____	_____

3. What could be changed in this manual to make it more useful?

Errors and Problems: Please note errors or problems in this manual, including chapter and page number, if applicable; or send a marked-up copy of the affected page(s).

May we contact you about your comments? ☐ Yes ☐ No

Name _____

Company _____

Phone _____

Date _____

Fisher-Rosemount FAX #: (612) 895-2044 **Thank you!**

Name _____

Company _____

Address _____

_____

_____

Place stamp here

Fisher-Rosemount Systems, Inc.
RS3 User Documentation
Mail Station G30
12000 Portland Avenue South
Burnsville, MN 55337
U.S.A.

Seal with tape.

FISHER·ROSEMOUNT

RS3™

Software Release Notes

About This Manual

This document provides information about Performance Series™ Release 1 (P1) software.

Section 1: Lists Version P1 enhancements to RS3™.

Section 2: Lists software and hardware requirements for Version P1.

Section 3: Lists system improvements, including corrected software discrepancies.

Changes for This Release

The major enhancement changes for this release are covered in ***Section 1***.

The major discrepancy fixes are covered in ***Section 3***.

Revision Level for This Manual

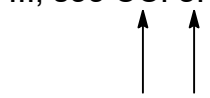
For This Software Version:	Refer to This Document:		
	Title	Date	Part Number
P1	Software Release Notes	May 1996	1984-2818-0110
18R2.5	Software Release Notes	April 1996	1984-2818-01x9
18R2.4	Software Release Notes	October 1995	1984-2818-01x8
18R2.3	Software Release Notes	June 1995	1984-2818-01x7
18R2.2	Software Release Notes	May 1995	1984-2818-01x6
18R2.1	Software Release Notes	January 1995	1984-2818-01x5
18R2	Software Release Notes	August 1994	1984-2818-01x4
18R1.5	Software Release Notes	November 1993	1984-2818-01x3
18R1	Software Release Notes	October 1993	1984-2818-01x2
17R2	Software Release Notes for Version 17	December 1992	1984-2817-01x3

References to Other Manuals

References to other RS3 user manuals list the manual, chapter, and sometimes the section as shown below.

Sample Entries:

For ..., see CC: 3.



For ..., see CC: 1-1.

Abbreviations of Manual Titles

- **AL** = Alarm Messages
- **BA** = ABC Batch
- **BQ** = Batch Quick Reference Guide
- **CB** = ControlBlock Configuration
- **CC** = Console Configuration
- **CQ** = Configuration Quick Reference Guide
- **DT** = Disk and Tape Functions
- **IF** = Intelligent Fuzzy Logic Control Manual
- **IO** = I/O Block Configuration
- **IT** = Intelligent Tuner Manual
- **OP** = Operator's Guide
- **OV** = System Overview and Glossary
- **PW** = PeerWay Interfaces
- **RB** = Rosemount Basic Language
- **RI** = RNI Release Notes and Installation Guide
- **RP** = RNI Programmer's Reference Manual
- **SP** = Site Preparation and Installation
- **SQ** = Service Quick Reference Guide
- **SV** = Service

Reference Documents

Prerequisite Documents

You should be familiar with the information in the following documents before using this manual:

System Overview Manual and Glossary	1984-2640-21x0
Software Release Notes, Performance Series 1	1984-2818-0110
Software Loading and Upgrade Procedure, Including Batch	1984-2818-0210

Related Documents

You may find the following documents helpful when using this manual:

ABC Batch Quick Reference Guide	1984-2818-1103
ABC Batch Software Manual	1984-2654-21x0
Alarm Messages Manual	1984-2657-19x1
Configuration Quick Reference Guide	1984-2812-0808
Console Configuration Manual	1984-2643-21x0
ControlBlock Configuration Manual	1984-2646-21x0
I/O Block Configuration Manual	1984-2645-21x0
Operator's Guide	1984-2647-19x1
PeerWay Interfaces Manual	1984-2650-21x0
RNI Programmer's Reference Manual	1984-3356-02x1
RNI Release Notes and Installation Guide	1984-3357-02x1
Rosemount Basic Language Manual	1984-2653-21x0
Service Manual, Volume 1	1984-2648-21x0
Service Manual, Volume 2	1984-2648-31x0
Service Quick Reference Guide	1984-2816-0904
Site Preparation and Installation Manual	1984-2642-21x0
Software Discrepancies for Performance Series 1	1984-2818-0311
User Manual Master Index	1984-2641-21x0

Section 1:
Version P1 Enhancements to RS3

The software numbers of the subsystems for Version P1 are as follows:

- Console P1.03
- Coordinator Processor (CP) P1.03
- Controller Processor P1.03
- Supervisory Computer Interface P1.02

Table 1.1 describes new features of Version P1.

NOTE: In ***Table 1.1***, the field labeled “For More Information” tells you where to find additional detail, either in these release notes, or in the reference manuals. A key to the manual abbreviations that are used in the table appears in the front of this document.

New Features of Version P1 Software

The following table lists new features and enhancements to P1 software.

Table 1.1. Summary of New Software Features in Version P1

Feature	Description	For More Information
Alarm Banner Enhancement	The format for standard and [EXCH] alarm list description has been modified to be more informative.	AL:1 OP:6
AMS Pass-through support	Several code-level changes were made to allow the RS3 to pass through AMS (Asset Management Solutions) messages from the field to a computer running PERFORMANCE™ software. The RS3 does not process this information.	--
Crash Dump Format	The crash dump format, which applies to crashes occurring in the console and in the CP/Controller is being expanded to include more system stack, more user stack and some registers.	--
Disk-only Console	A modified version of the Engineering Console without a supporting tape or floppy drive. This is not the same as the System Manager Station (SMS).	DT:
HART Command	The “Stop HART Comm” command must be executed anytime a third party HART valve product is being used	IO:8
Modbus	The new Modbus broadcast message will allow PLCB’s to be configured with PLC=0 to designate a “broadcast” message. This will only apply to write messages and for this reason the user will not be allowed to configure the read option in this case. Whenever PLC=0 has been configured on a PLCB, a text field “Broadcast” will appear to inform the configurer what he has done. Broadcast messages of this kind will only apply to the protocols “Modbus/ASCII”, “Modbus/RTU” and “Modbus/RTU-2”.	--
PID Velocity Algorithm Option	The velocity option (vel) in the Options (Opt) field of a PID block is now valid for PI action.	CB:2
PLC Block Enhancement	Add new Read and Write Filter options that allows reading/writing a PLC block at a configurable rather than a default system time.	IO:9
Read Filter	See PLC Block Enhancement in this table.	--
Russian Console Enhancement	English and Cyrillic text can now be mixed in plant configurations. Callup buttons can now be programmed in either Cyrillic or Roman text.	CC:1

(continued on next page)

Table 1.1. Summary of New Software Features in Version P1

Feature	Description	For More Information
Smart Field Device Support	RS3 support for the following Smart field devices has been added: MicroMotion 9701 flow transmitter Rosemount 3095FT flow transmitter Rosemount 644 temperature transmitter Rosemount 3144 temperature transmitter Rosemount 3244 temperature transmitter Rosemount 3095 MV mutivariable transmitter Rosemount Analytical WC3000 oxygen analyzer	IO:8
System Manager Station	A new console is available to work with the NT-based RS3 Operator Station. This is not the same as the disk-only console.	CC:1
Write Filter	See PLC block enhancement in this table.	--

Summary of Recent Hardware Releases

Table 1.2 lists recent hardware which operates in the P1 environment. This is not a complete list, but is provided as a guide to make you aware of new hardware.

Table 1.2. Summary of New Hardware through Version P1

Part Number	Description	For More Information
Model # 6600SM	System Manager Station (SMS)	SV:03 SP:03
--	Disk-only Console	CC:1
10P-5330-0001	Single Board RNI (SBR)	Hardware Installation Instruction 1984-3363-0011
--	MTL Discrete MTL Analog	1984-3363-0003 1984-3363-0004
10P-5093-0001 10P-5096-0001	Fiber Optic PeerWay Extender (PX), Tap A Fiber Optic PeerWay Extender (PX), Tap B	Hardware Installation Instruction 1984-3363-0009
10P-5320-0001	PLC/RBL FlexTerm	Hardware Installation Instruction 1984-3363-0010
10P-5352-0006 10P-5355-0006	Multipoint Discrete I/O FIM, low side switch Multipoint Discrete I/O FIM, high side switch	Hardware Installation Instruction 1984-3363-0013 1984-3363-0014
10P-5270-0001	Direct Connect Termination Panel	Hardware Installation Instruction 1984-3363-0013
1984-4121-0001 1984-4124-0001	Multipoint Discrete I/O Opto-Termination Panel (A) Multipoint Discrete I/O Opto-Termination Panel (B)	Hardware Installation Instruction 1984-3363-0014
1984-4282-0001	Multi-FIM Termination Panel	SV:6 SP:7
1984-4167-0001	High Density Termination Panel	SV:6 SP:7
10P-5066-0002	Mag Innovision 15 Inch CRT Monitor	--
1984-0390-000x	AC/DC Power Supply (Without Battery Backup)	SV:1 SP:5

(continued on next page)

Table 1.2. Summary of New Hardware through Version P1

Part Number	Description	For More Information
1984-4302-000x 1984-4329-0001 1984-4329-0002 1984-4329-0003 1984-4433-xxxx	Remote I/O Power Supply AC Distribution Block DC Distribution Block (10 circuits) DC Distribution Block (1 circuit) DC I/O Power Cable (B Bus)	SV:1 SP:2
1984-3211-000x 1984-3214-000x	Optical PeerWay Tap Box (A) Optical PeerWay Tap Box (B)	SV:02
1984-3202-00xx	OI Processor V (68040)	SV:03
1984-3286-000x 1984-3246-000x 1984-2633-000x	Sony 14 Inch CRT Monitor CPD-1430 Sony 14 Inch CRT Monitor CPD-1304S Sony 14 Inch CRT Monitor C-1404S	SV:03
 1984-3222-0004 1984-3222-1004 1984-3222-2004 1984-2889-0004 1984-2889-1004 1984-1978-000x	Keyboard Interface Card (KBI): Standard Keyswitch and Dual Keyswitch Remote Keyswitch Password Security Standard Keyswitch Remote Keyswitch Standard Keyswitch (without video isolation)	SV:03
1984-3289-000x 1984-3389-000x	Viper 2060S Magnetic Tape Drive Viper 2150S Magnetic Tape Drive	SV:03
1984-3318-000x	Fujitsu DL3800 Printer	SV:03
1984-3270-0001	ControlFile Data Bus Terminator board	SV:04
1984-4080-0001	Multipoint Discrete I/O FIM	SV:06
1984-4167-000x 1984-4282-000x 1984-4344-000x	High-Density Isolated Discrete Termination Panel Multi-FIM Discrete Termination Panel Standard Remote Termination Panel	SV:06
1984-3278-000x	Fiber Optic I/O Converter	SV:06
1984-4308-000x	Loop Power Module	SV:06
1984-4414-000x 1984-4418-000x	Multipoint Analog Input FIM Multipoint Analog Output FIM	SV:06

(continued on next page)

Table 1.2. Summary of New Hardware through Version P1

Part Number	Description	For More Information
1984-2530-0001	QBI Hardware Kit, MicroVax II Series	SV:07
1984-2627-0001	QBI Hardware Kit, MicroVax 3xxx Series and VAX 4xxx series	
1984-3261-0002	QBUS Board 1 (CPU Card)	
1984-4323-0001984-4270-0001984-4457-0002 1984-4386-000x	RS3 Network Interface (RNI) RNI Power Regulator RNI PeerWay Interface RNI CPU board RNI cabinet assembly	SV:07

Hard Drive Compatibility

Table 1.3 lists the hard drives that are compatible with the latest software revisions.

NOTE: 68000 and 68020 consoles are not supported in P1. Only the 68040 console is supported.

Table 1.3. Console Hard Drive Compatibility Matrix

Console Software Revision (English)	040 with V10.08 Boot ROMS or higher	040 with V10.04–V10.07 Boot ROMS	All 68020	All 68000
P1.02	LPS105S LPS170S 270S	N/A	N/A**	N/A*
V18.03 and up	LPS105S LPS170S 270S	LPS105S LPS170S 270S	LPS105S LPS170S 270S	N/A*
V17.06	N/A***	N/A***	LPS105S	N/A*
V17.01	N/A***	N/A***	LPS105S	N/A*
V16	N/A***	N/A***	LPS105S	N/A*
V15.20	N/A***	N/A***	LPS 105S LPS170S 270S	LPS 105S LPS170S 270S
V15.14	N/A***	N/A***	LPS105S	LPS105S
V15.12 & lower	N/A***	N/A***	LPS105S	LPS105S

* 68000 consoles not supported by these software versions.

* * 68020 consoles not supported by these software versions.

***68040 consoles not supported by these software versions.

Floppy Drive Compatibility

P1 Software does not support floppy drives.

Tape Drive Compatibility

Table 1.4 lists the tape drives that are compatible with the latest software revisions.

NOTE: 68000 and 68020 consoles are not supported in P1. Only the 68040 console is supported.

Table 1.4. Tape Drive Compatibility Matrix

Console Software Revision (English)	040 with V10.08 Boot ROMs or higher	040 with V10.04–V10.07 Boot ROMs	020 with V9.18 Boot ROMs or higher	020 with V9.17 Boot ROMs	020 with V9.15 Boot ROMs	020 with V9.12 & lower Boot ROMs	All 68000
P1.02	Viper2150S† 2060S‡, Scorpion‡	N/A	N/A**	N/A**	N/A**	N/A**	N/A*
V18.03 & up	Viper2150S† 2060S‡, Scorpion‡	Viper2150S† 2060S, Scorpion	Viper2150S† , 2060S, Scorpion	Scorpion	Scorpion	Scorpion	N/A*
V17.06	N/A***	N/A***	Viper2060S or Scorpion	Scorpion	Scorpion	Scorpion	N/A*
V17.01	N/A***	N/A***	Viper2060S or Scorpion	Scorpion	Scorpion	Scorpion	N/A*
V16	N/A***	N/A***	Scorpion	Scorpion	Scorpion	Scorpion	N/A*
V15.20	N/A***	N/A***	Viper2150S† , 2060S, Scorpion	Scorpion	Scorpion	Scorpion	Scorpion
V15.14	N/A***	N/A***	Viper2060S or Scorpion	Scorpion	Scorpion	Scorpion	Scorpion
V15.12 & lower	N/A***	N/A***	Scorpion	Scorpion	Scorpion	Scorpion	Scorpion

† The Viper2150S can read a tape made on a Scorpion or Viper2060S, but not vice versa.

‡ These tape drives are only supported with a SCSI Board I (1984–1140–0001 or –0003)

* 68000 is not supported by these software versions.

* * 68020 is not supported by these software versions.

*** 68040 is not supported by these software versions.

Section 2:
Version P1 Software and Hardware Requirements

This section provides Version P1 software and hardware requirements, and information on temporary coexistence of RS3 software versions to facilitate plant upgrades.

Changes in RS3 Hardware Requirements

MiniConsoles, 68000, and 68020 consoles and multiple CRT MTCCs are not supported in Version P1 software. SRUs are not supported. No floppy drives are supported in P1 software. P1 controller and CP images only run in MPCII's and CPIV's.

P1 nodes can coexist with certain V18 nodes, and you can configure those nodes from a P1 console.

Contact your Fisher-Rosemount service representative for the available upgrade options.

P1 Requirements

The following tables list hardware and software requirements for Version P1. If you are a current user who is upgrading to this version and release, you should make sure that your system meets these requirements. If your system does not, contact your Fisher-Rosemount sales or service representative.

- Table 2.1 CPIV and CPIV+ requirements using P1 software images
- Table 2.2 Image requirements for CPIV with V18 CPIV functionality (no batch)
- Table 2.3 CPII requirements
- Table 2.4 I/O requirements
- Table 2.5 Console processors (68040)
- Table 2.6 Console accessories (trackball, etc.)
- Table 2.7 Miscellaneous system components

PeerWay Node Type Coexistence Combinations

If one ControlFile is upgraded to a new software version, all other nodes on the PeerWay must be upgraded to the same level. A mixture of ControlFile software functionality can coexist on a P1 PeerWay. These are the nodes types and software that can coexist in a P1 environment:

1. A ControlFile with CPIV (P1) and MPCII (P1) — with and without Batch
2. A ControlFile with CPIV (V18), MPCII (V18), and MLC (V9) — no Batch
3. A ControlFile with CPMax (V18), MPCI (V18), and MLC (V9) — no Batch
4. Console (P1)
5. SCI (P1)
6. HIA (V11)

A PeerWay is considered to be a P1 PeerWay if it has a node described by #1 or #4 above.

The valid V18 version that can coexist is the released version of V18 that is included on the released P1 tapes. The software numbers for the coexisting images are as follows:

- Coordinator Processor (CPMax V18) V18.09
- Coordinator Processor (CPIV V18) V18.11
- Controller Processor (MPCII V18) V18.07
- Controller Processor (MPCI V18) V18.07

Determining Upgrade Requirements

After you obtain information about your ControlFile, use Table 2.1, Table 2.2, and Table 2.3 to determine if your current installation supports the new software.

CP Requirements

Table 2.1. CPIV and CPIV+ Requirements Using P1 Software Images

CP		Memory		Controllers		Images	
Type	**Boot ROM**	**Size/Type**	**Part Number**	**Type**	**Boot ROM**	**Control Type**	**File Name**
CPIV+ CPIV	4.02 4.02	2MB NV RAM 1MB NV RAM 1MB Bubble	1984-2347-0021 1984-2347-0011 1984-1598-0001	MPCII	6.05	MPC2+	$$MPC2+_xx
						PLC+	
						MUX+	
						RBLC2	$$RBLC2_xx
		2MB NV Memory	1984-2347-0021	MPCII	6.05	ABC Batch	$CP HBA-P1

Table 2.2. Image Requirements for CPIV with V18 CPIV Functionality (No Batch)

CP		Memory		Controllers		Images	
Type	**Boot ROM**	**Size/Type**	**Part Number**	**Type**	**Boot ROM**	**Control Type**	**File Name**
CPIV+ CPIV	4.02 4.02	2MB NV RAM 1MB NV RAM 1MB Bubble	1984-2347-0021 1984-2347-0011 1984-1598-0001	MPCII	6.05	MPC2+	$$MPC2+_xx
						PLC+	
						MUX+	
						RBLC2	$$RBLC2_xx
CPIV+	4.02	2MB NV RAM 1MB NV RAM 1MB Bubble	1984-2347-0021 1984-2347-0011 1984-1598-0001	CC	5.15	CC	$$STDCxx*
				MLC		SSC	
				MUX		Mux	
				SSC		SSC	

* If you upgrade to a CPIV or CPIV+ from a CPII with CC, MLC/SSC, or MUX, you must load the $$STDCxx image to the CPIV/CPIV+ as an additional image.

NOTE: MPCI's are not supported in a CPIV ControlFile with P1 software. MPCI's must be upgraded to MPCII's.

Table 2.3. CPII Requirements

CP		Memory	Memory	Controllers		Images	
Type	**Boot ROM**	**Size/Type**	**Part Number**	**Type**	**Boot ROM**	**Control Type**	**File Name**
CPII	2.70	2MB NV RAM	1984-2347-0021	CC	5.15	CC	$$CPxx
				MLC	5.15	SSC	
				MUX	5.15	Mux	
				SSC	5.15	SSC	
		1MB NV RAM	1984-2347-0011	MPCI*	5.17	MPC	$$MPCAxx
		1MB Bubble	1984-1598-0001			SMART	$$SMARTxx
		.5MB Bubble	1984-1483-000x		5.21	MPCAS	$$MPCASxx
		.5MB Bubble	1984-1224-000x			MPCAP	$$MPCAPxx
						MPCAT	$$MPCATxx
						MPTUN	$$MPTUNxx
						PLC	$$PLCMxx

* You can use an MPCII with a CPII if you jumper the MPCII to be an MPCI.

NOTE:

- CPII is supported by CPMAX image only. The CPII standard image is not part of the P1 release.
- CPI is not supported in P1 software. CPI's should be upgraded to CPIV's.

I/O Requirements

Table 2.4. I/O Requirements

Type	Part Number	Card Name	F-Rev	S-Rev	Added Functionality
AO					
CIO	1984-1304-000x	Contact I/O			
	1984-1460-000x(1)	Contact I/O	3.1		
SI					
AIO					
AIO–R	1984-2518-0001	Analog FIC	1.x	1.6	
				4.6	.125 s scan time
AIO-R	1984-2518-0002	Analog FIC	2.1	3.x	
AIO–RS	1984-2519-0002	Analog FIC SMART	2.1	4.4	RIOB
					268 or 275 Handheld
				4.6	.125 s scan time
				4.7	HART Output Block
				4.8	HART Pass through
PIOB	1984-2546-000x	Pulse I/O FIC	1.15		
TIB	1984-2731-000x	Temperature FIC	1.8	3.1	
DIO	1984-4080-000x	MDIO I/O FIM	1.1	3.4	
DIO2	10P–5352–0006 (L) 10P–5355–0006 (H)	DIO2 FIM	6.6 (L) 6.7 (H)	3.12	CE compliant
MAI	1984-4414-000x	MAIO Input FIM	1.1	1.2	
MAO	1984-4418-000x	MAIO Output FIM	1.1	1.2	
MAI–HD	10P–5319–0004	Multipoint Analog Input High–Density (32 points)	4.1	2.2	

(1) If you are using a serial Contact FlexTerm (1984-2576-000x), you must use this card (1984-1460-000x).

Console Requirements

Table 2.5. Console – OI Processor

Processor	Part Number	Boot ROM	Storage	SCSI Adapter
68040	10P 5527 0011 (SMS)	10.08	RS3*T3 150S (qic–150) RS3*T2 60S (qic–60) RS3*T1 45S (qic–45)	SCSI Board 2 (1984-3301-0001) SCSI Host Adapter (1984-1140-0001)

Table 2.6. Console Accessories

Keyboard Revisions		Option	Part Number
Device	Revision		
KBI	4.02	Secure Keyboard	10P–5084-2004* 1984-3222-2004
	3.7	Enhanced operator/engineer keyboard	10P–5084-0004* 1984-3222-0004
	1.4	Configuror Keyboard	1984-3222-1004
TB	1.1	Trackball	
DISPPNL	1.3	Operator Keyboard	
OPTPNL1 OPTPNL2 OPTPNL3	1.1	Options Keyboard	1084-1632-000x

* CE compliant

Identify Requirements for other System Components

Table 2.7 lists requirements for other RS3 system components.

Table 2.7. Miscellaneous System Components

System Component	Boot ROM	Processor	Software
RNI			
HIA		60000	
SCI	8.xx	60000/1 MB	
Diogenes	8.xx	60000/1 MB	
MicroVAX with Host Mode			RMT/host software 4.0

Memory Allocations and Plant Program Space

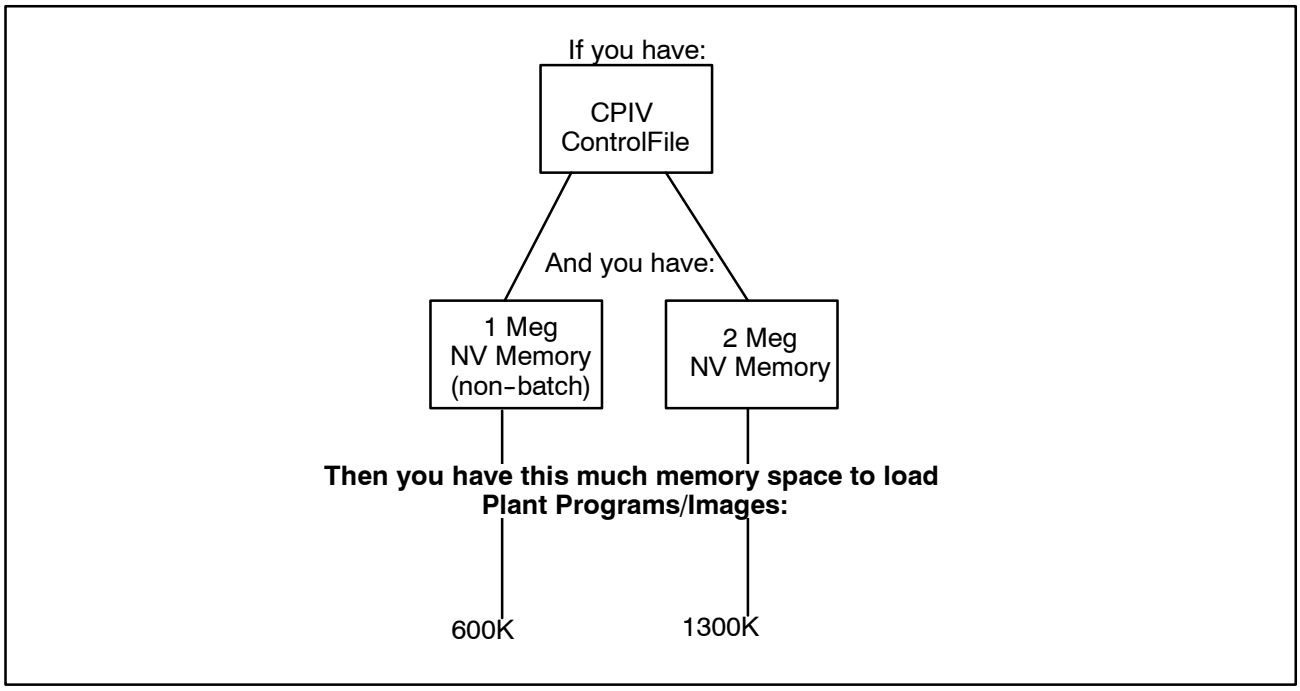


Figure 2.1. Memory Allocations and Plant Program Space

NOTE: Be sure to calculate available space for plant programs and images to be used before upgrading software. Check plant program/ image sizes from file size number in the Plant Program Folder.

Section 3:
System Improvements

This section describes improvements to the RS3 system, including corrected discrepancies.

Corrected Discrepancies

Table 3.1 lists corrected discrepancies in Version P1. The table itself is organized alphabetically by subsystem, then by rating, with higher ratings appearing first. The ID column specifies the RS3 subsystem: (Batch, Controller, Console, Comm, Documentation, or I/O), followed by a number used to track this change. The Rating column contains a two-character code. The letter stands for the type of change made to the software—'D' stands for 'discrepancy'—and the number is a measure of its importance, with 1 being the most important.

NOTE: While many of the descriptions seem to indicate a problem by the way the sentence is phrased, in fact, they are a description of a problem that has been verified and fixed.

Table 3.1. RS3 Corrected Software Discrepancies in P1

ID	Description	Rating
Batch 801337	All running recipes, while not downloading scripts or handling exceptions, do disk reads in a tight loop, causing PeerWay problems.	D1
Batch 801183	When two batch operations are run in parallel, "Left CP Data Integrity" errors are generated, up to a rate of 10 alarms/sec.	D2
Batch 801351	A CP goes down before a Unit Recipe start is backed up to bubble memory. When the CP recovers there is no way to restart the Unit Recipe.	D2
Batch 801404	The batch input window on a graphic does not update and display new messages.	D4
Batch 802029	Recipe misses icons in Parallel Recipe execution.	D2
Batch 802190	Occasionally, when calling up a Batch Working Recipe screen, only the top menu is displayed, and the rest of the screen is blank.	D2

Table 3.1. RS3 Corrected Software Discrepancies in P1

ID	Description	Rating
Batch 800699	When you restart a Batch Working Recipe suspended in Static mode, the Recipe View menu receives a “Config” warning.	D3
Batch 801066	The recipe info screens do not display all Batch configuration fields.	D3
Batch 800498	Working recipe icon is wrong color after executing.	D4
Batch 800671	Duplicate child task started after power failure.	D4
Batch 801106	The Master Recipe validation may hang with more than 10 warnings or errors.	D4
Batch 801349	The Working Recipe screen displays two STATIC marks if the recipe is put into static while an icon is in the SCHEDULED state.	D4
Batch 801365	A start unit recipe (start_UR) icon does not execute if it does not have a link to a subsequent icon.	D4
Batch 801906	If the ABC Log Folder is full and an operator modifies a Working Recipe, the console may hang or crash and the recipe becomes inaccessible.	D4
CP 152818	Redundant controller processors do not always boot up on the first try.	D4
Comm 800256	Error in V18 PeerWay Interface Manual for field codes 5 & 6, page 1-4-7: SCI cannot write to the block mode and output of I/O blocks. SCI can only write to the block mode and output of ControlBlocks.	D1
Comm 800356	SCI cannot read field codes higher than 1500.	D4
Comm 800857	On the SCI, saving the configuration and sending a message pair in quick succession might disable data transmission.	D4
Console 800804	Items defined in event list configuration are not readable when printed from a 68040 console. They print correctly from a 68020 console.	D2
Console 800976	If a block descriptor uses all 24 characters, the BLKDES graphic object does not display the descriptor.	D4
Console 152821	When configuring a console with a blank disk, the default size of the Console Program Folder is too small to boot the console software.	D3

Table 3.1. RS3 Corrected Software Discrepancies in P1

ID	Description	Rating
Console 801226	On the Report Config Directory screen, the autoprint status is displayed as a garbage character instead of a “Y” or “N”.	D3
Console 801242	Russian consoles only: The SIB block alarms display garbage characters.	D3
Console 801260	When a graphic is upgraded from V15R5 to V18R2.2, link objects for discrete registers (for example, =1A–10/a) no longer animate in V18.	D3
Console 801615	The loop power module status bits on the field IO status screen for MAIO are displayed in the alarm color whenever they are 1 even if meaningless.	D3
Console 102845	In the tuning display operation, changing the scaling at the left of the faceplate does not change the alarm limit indication.	D4
Console 152623	If the alarm log is not enabled or not defined, a large number of “Illegal Volume/File Name Used” alarms are generated.	D4
Console 152786	When viewing the Disk Directory Peerway screen, all drives are listed under the drive 1 position for several seconds.	D4
Console 800672	Variables of 10 or more characters from SIB or VIB I/O block might cause the console to crash when a report is generated.	D4
Console 801076	When creating a boot tape, the default “New Volume Name” can confuse Batch.	D4
Console 801107	Process graphics with complex layering of windows might crash during periods of high alarm activity.	D4
Console 801310	On the 68040 console, block descriptors with 24 or more characters cause the console to crash.	D4
Console 801323	Console crashed during printing of a report. No alarms appeared.	D4
Console 801362	If more than 32 consoles and SRUs are on linked PeerWays, a console might not be able to access a process graphic on a different node.	D4
Console 801376	Task neglected to restore rrow variable to its original value of zero, causing crash dumps.	D4

Table 3.1. RS3 Corrected Software Discrepancies in P1

ID	Description	Rating
Console 801417	The console may crash if you press the arrow key on the numeric key pad and move the trackball at the same time.	D4
Console 801469	Problem with graphic in V17 AND V18 R2.1 French console: Duplicating portion of graphic to another location reboots the console.	D4
Controller 801411	If an AOB, AIB, SIB, or HOB is configured with no IO hardware on a point greater than 8, a bad block alarm is generated, making the block useless.	D1
Controller 801849	An upload of the information in a smart output device cannot be completed.	D1
Controller 801360	CB documentation omission: When controllers switch, the data valid flag changes to 0 for one scan cycle of the controller processor.	D2
Controller 801381	The HOB device status displays the the valve serial number instead of the final assembly number. Some users would prefer to see the assembly number.	D3
Controller 801382	RS3 does not allow the fieldvue secondary master to communicate with the RS3.	D3
Controller 800542	When disabled and enabled, a controller might become stuck in standby mode when it comes back up.	D4
Controller 800573	In a ControlBlock, the ssm (seconds since midnight) time function can alter the values of subsequent time functions.	D4
Controller 800679	There is no error message when an SIB or VIB block is loaded to another card in the cage and the SIB or HOB tag field has an incorrect address.	D4
Controller 801113	If you change an HOB from digital to analog, you must execute the “Update xmtr variables” command to implement the change.	D4
Controller 801387	System flags for block inputs A through O are interpreted as user flags.	D4
Controller 801388	A secondary master device may not be able to calibrate a smart output field device if the RS3 changes the HOB mode during an upload.	D4
Controller 801426	RS3 V18R2.3 cannot support some PLCs because RS3 asks for more coils than are configured in the PLC.	D4

Table 3.1. RS3 Corrected Software Discrepancies in P1

ID	Description	Rating
Controller 801471	On HOB, when the HOB is switching back from digital to analog, the valve display does not automatically show the right control mode.	D4
Documen-tation 800660	If the new ASCII file is smaller than the original file, the ASCII conversion is successful, but an alarm says it was unsuccessful.	D3
Documen-tation 801990	Process Unit Icons (multiple in main, illegal) swapping unit names.	D4
Documen-tation 802070	SCI hangs periodically every 2 to 3 days.	D4
I/O 152324	Transmitter 9739 hardware alarms can overwhelm the maintenance log.	D3
I/O 800487	Downloading an FIM program on a controller Serial communication line fails, if the SIB block is configured and in alarm mode.	D4
I/O 801262	When a 4080 FIM is installed as a discrete I/O cold spare, sometimes it does not take over and start communicating with the controller.	D4